JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 100, No. 1 January 1999

CONTENTS

CONTRIBUTED PAPERS

Numerical Computation of Optimal Feed Rates for a Fed-Batch Fermentation Model, *H. J. Oberle and B. Sothmann* 1

Two-Stage Approach for Quantitative Policy Analysis Using Bilevel Programming, *A. Breiner and M. Avriel* 15

Inverse Problem for a Class of Two-Dimensional Diffusion Equations with Piecewise Constant Coefficients, *M. Mochi, G. Pacelli, M. C. Recchioni, and F. Zirilli* 29

Decentralized Stabilizing State Feedback Controllers for a Class of Large-Scale Systems Including State Delays in the Interconnections, *H. S. Wu* 59

H_∞-Controllers for Time-Delay Systems Using Linear Matrix Inequalities, *M. S. Mahmoud and M. Zribi* 89

Optimal Filtering of Discrete-Time Hybrid Systems, *Q. Zhang* 123

KKT Conditions for Rank-Deficient Nonlinear Least-Square Problems with Rank-Deficient Nonlinear Constraints, *M. Gulliksson* 145

Adaptive Strategy for the Damping Parameters in an Iteratively Regularized Gauss–Newton Method, *O. Scherzer and M. Gulliksson* .. 161

Optimality Conditions and Duality Involving Arcwise Connected and Generalized Arcwise Connected Functions, *D. Bhatia and A. Mehra* .. 181

On Parametric Generalized Quasi-Variational Inequalities, *X. P. Ding and C. L. Luo* 195

Homotopy Method for Solving Variational Inequalities, *Z. Lin and Y. Li* 207

Extended Projection Methods for Monotone Variational Inequalities, *Y. B. Zhao* 219

TECHNICAL NOTE

On Subdifferentials of Set-Valued Maps, *J. Baier and J. Jahn* 233

BOOK NOTICES 241

GENERAL INFORMATION

Editorial Policy 243

Preparation of Papers 245

Editorial Addresses 249

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 100, No. 2 February 1999

CONTENTS

CONTRIBUTED PAPERS

On the Optimal Insulation of Conductors, *S. J. Cox, B. Kawohl, and P. X. Uhlig* 253

Controllability of Nonlinear Evolution Systems with Preassigned Responses, *W. M. Bian* 265

Global Convergence Analysis of Algorithms for Finding Feasible Points in Norm-Relaxed MFD, *X. B. Chen and M. M. Kostreva* 287

On a Convex Acceleration of Newton's Method, *J. A. Ezquerro and M. A. Hernández* 311

Exterior Minimum-Penalty Path-Following Methods in Semidefinite Programming, *M. K. H. Fan and Y. Gong* 327

Asymptotic Behavior of the Attainable Sets of Linear Periodic Control Systems, *T. Yu. Figurina and A. I. Ovseevich* 349

A Theorem of the Alternative and Its Application to the Optimization of Set-Valued Maps, *Z. Li* 365

Metric Characterizations of Tikhonov Well-Posedness in Value, *M. Margiocco, F. Patrone, and L. Pusillo Chicco* 377

Change of Variable Method for Generalized Complementarity Problems, *M. A. Noor and E. A. Al-Said* 389

Multipoint Boundary-Value Solution of Two-Point Boundary-Value Problems, *H. Pasic* 397

On Constraint Qualification in Multiobjective Optimization Problems: Semidifferentiable Case, *V. Preda and I. Chiţescu* 417

TECHNICAL NOTE

Optimal Control for an Obstruction Problem, *B. D. Craven* 435

GENERAL INFORMATION

Editorial Policy 441

Preparation of Papers 443

Editorial Addresses 447

JOURNAL OF OPTIMIZATION
THEORY AND APPLICATIONS

Vol. 100, No. 3 March 1999

Special Issue in Honor of Professor Yu-Chi Ho

This Issue Edited by W. B. Gong and D. D. Yao

CONTENTS

FOREWORD

Introduction to the Special Issue, *A. Miele* 451

PREFACE

An Appreciation of Professor Yu-Chi Ho, *W. B. Gong and D. D. Yao* 453

CONTRIBUTED PAPERS

Robust Stability and Performance Analysis of Uncertain Systems Using Linear Matrix Inequalities, *V. Balakrishnan and R. L. Kashyap* 457

Nash Equilibria of Risk-Sensitive Nonlinear Stochastic Differential Games, *T. Başar* 479

A Strong Approximation Theorem for Stochastic Recursive Algorithms, *V. S. Borkar and S. K. Mitter* 499

Time-Varying Linear-Quadratic Control, *A. E. Bryson* 515

Single Sample Path-Based Optimization of Markov Chains, *X. R. Cao* 527

Effective Bandwidths and Performance Bounds in High-Speed Communication Systems, *L. Dai* 549

New Linear Program Performance Bounds for Queueing Networks, *J. R. Morrison and P. R. Kumar* 575

Performance Optimization of a Class of Discrete Event Dynamic Systems Using Calculus of Variations Techniques, *D. L. Pepyne and C. G. Cassandras* 599

Optimizing Bernoulli Routing Policies for Balancing Loads on Call Centers and Minimizing Transmission Costs, *L. D. Servi and S. Humair* .. 623

A Framework for Globally Convergent Algorithms Using Gradient Bounding Functions, *X. Wang and T. S. Chang* 661

Surrogate Gradient Algorithm for Lagrangian Relaxation, *X. Zhao, P. B. Luh, and J. Wang* 699

GENERAL INFORMATION

Editorial Policy 713

Preparation of Papers 715

Editorial Addresses 719

AUTHOR INDEX TO VOLUME 100 723